

GRANA

Vol. 20. 1981

An international journal of **PALYNOLOGY** and **AEROBIOLOGY**

with

World Pollen and Spore Flora

Editors

S. Nilsson, Sweden and P. Sorsa, Finland

Editorial Board

S. Th. Andersen, Denmark, A. Dunbar, Sweden, I. Engström, Sweden, K. Fægri, Norway,
U. Hafsten, Norway, L. Holm, Sweden, G. Kjellström, Sweden, K. Larsen, Denmark,
S. Manum, Norway, J. Praglowski, Sweden, J. Rowley, Sweden, Y. Vasari, Finland

The Almqvist & Wiksell Periodical Company, Stockholm, Sweden

© The Almqvist & Wiksell, Periodical Company Stockholm

Contents

No. 1

<i>J. W. Walker and A. G. Walker</i> Comparative pollen morphology of the Madagascan genera of Myristicaceae (<i>Mauloutchia</i> , <i>Brochoneura</i> and <i>Haematodendron</i>)	1
<i>F. P. Sampson</i> Synchronous versus asynchronous mitosis within permanent pollen tetrads of the Winteraceae	19
<i>F. Eide</i> On the pollen morphology of <i>Rubus chamaemorus</i> (Rosaceae)	25
<i>D. Southworth and D. B. Dickinson</i> Ultrastructural changes in germinating lily pollen	29
<i>V. D. Wiggins</i> <i>Noctuiipollis</i> —a new Upper Cretaceous (Campanian) pollen genus from arctic Alaska	37
<i>D. K. Goodman and W. R. Evitt</i> The dinoflagellate <i>Angustidinium acribes</i> (Davey & Verdier) gen. et comb. nov. from the mid-Cretaceous of the northern California coast ranges	43
<i>M. Kåpylä</i> Diurnal variation of non-arboreal pollen in the air in Finland	55
<i>B. P. R. Vittal and K. Krishnamoorthi</i> Air spora of an agricultural farm in Madras, India	61

No. 2

<i>Jean-Claude Audran and Mekinto Batcho</i> Cytochemical and infrastructural aspects of pollen and tapetum ontogeny in <i>Silene dioica</i> (Caryophyllaceae)	65
<i>Léontine Dan Dicko-Zafimahova et Jean-Claude Audran</i> Étude ontogénique de la pollinie de <i>Calotropis procera</i> (Asclepiadaceae). Apports préliminaires de la microscopie électronique	81
<i>Frøydís Eide</i> Key for Northwest European Rosaceae pollen	101
<i>Miklós Kedves</i> Études palynologiques sur les sédiments préquaternaires de l'Égypte. Neogene I.	119
<i>Markku Kåpylä and Antti Penttinen</i> An evaluation of the microscopical counting methods of the tape in Hirst-Burkard pollen and spore trap	131
<i>Knut Fægri</i> A note on viscin threads	143

No. 3

<i>Michael Hesse</i> Pollenkitt and viscin threads: their role in cementing pollen grains	145
<i>Knut Krzywinski</i> Fourth Nordic Symposium on Aerobiology, May 18–20, 1980	154
<i>Eva Henningson, Roger Roffey and Åke Bovallius</i> A comparative study of apparatus for sampling airborne microorganisms	155
<i>Ruth H. Leuschner and G. Boehm</i> Pollen and inorganic particles in The air of Climatically very different places in Switzerland	161
<i>Oddvar Skre</i> The amounts and properties of transported air at two Norwegian stations as functions of wind direction and weather type	169
<i>Siwert Nilsson and Staffan Persson</i> Tree pollen spectra in the Stockholm region (Sweden), 1973–1980	179

<i>Lars-Åke Janzon</i>	
Airbone pollen grains under winter conditions	183
<i>Sven-Olof Strandhede and Jan-Åke Wihl</i>	
Comparison of pollen counts in Copenhagen and Malmö	187
<i>A. B. Singh and C. R. Babu</i>	
Variations in the atmospheric pollen spectra of Delhi region, India	191
<i>Lisbeth Larsen</i>	
A three-year survey of microfungi in the outdoor air of Copenhagen, 1977-79	197
<i>Ritva Kupias, Antti Koivikko and Yrjö Mäkinen</i>	
Liberation of <i>Taraxacum</i> and <i>Leucanthemum</i> pollen in the air through mechanical agitation	199
<i>Staffan Wiktelius</i>	
Wind dispersal of insects	205
<i>J. E. Hermansen and Ulrik Torp</i>	
<i>Erysiphe graminis</i> f. sp. <i>hordei</i> conidia of remote origin in the spring in Denmark	209
<i>Lisa Munk</i>	
Dispersal of <i>Erysiphe graminis</i> conidia from winter barley	215
<i>Bruno Nüchel Petersen and Inger Sandberg</i>	
Diagnostics in allergic diseases by correlating data from pollen/fungal spore counts with patient scores of symptoms and use of treatment	219
<i>Suzanne Gravesen</i>	
On the connection between the occurrence of airborne microfungi and allergy symptoms	225